Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_ Period: \_\_\_\_ Date: \_\_\_\_\_\_

**9.2A Surface Areas of Pyramids\_Classwork**

*Objective: find surface are of regular pyramids. CC.SS.7.G.6*

*HW: 9.2A pg 366\_#4-12 ALL*

 

* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a pyramid whose base is a regular polygon. The lateral faces are triangle. The height of each triangle is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the pyramid.
* A regular polygon is a shape with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sides.

Direction:

* Draw a net of the pyramid.
* Find the lateral surface area of the real-life pyramid.
* Find the surface area of the real-life pyramid.

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| EXAMPLE 1: Triangular PyramidThe height of the triangular base is 27mLateral surface area: \_\_\_\_\_\_\_\_ Surface Area of the pyramid: \_\_\_\_\_\_\_ |
| EXAMPLE 2: Hexagonal Pyramid TA: S:\mscc7wb03.01\Red Production\Red Record and Practice Journal\Art\09\mscc7_rpj_0902_13.eps,11/7/2012 11:47:56 AM replaced: 7/31/2016 7:31:19 PMLateral surface area: \_\_\_\_\_\_\_\_ Surface Area of the pyramid: \_\_\_\_\_\_\_ |

Direction:

* Draw a net of the pyramid.
* Find the lateral surface area of the real-life pyramid.
* Find the surface area of the real-life pyramid.

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| Square Pyramid | Lateral surface area: \_\_\_\_\_\_\_\_ Surface Area of the pyramid: \_\_\_\_\_\_\_ |
| Square Pyramid | Lateral surface area: \_\_\_\_\_\_\_\_ Surface Area of the pyramid: \_\_\_\_\_\_\_ |
| c. Triangular Pyramid TA: S:\mscc7wb03.01\Red Production\Red Record and Practice Journal\Art\09\mscc7_rpj_0902_12.eps,11/7/2012 11:47:34 AM replaced: 7/31/2016 7:31:19 PM | Lateral surface area: \_\_\_\_\_\_\_\_ Surface Area of the pyramid: \_\_\_\_\_\_\_ |
|  | **UMBRELLA.** You are making an umbrella that is shaped like a regular octagonal pyramid. Estimate the amount of fabric that you need to make the umbrella.  |